

MENU

SEARCH

INDEX

1/1



PATENT ABSTRACTS OF JAPAN

(11)Publication number: 08304739

(43) Date of publication of application: 22.11.1996

(51)Int.CI.

G02B 27/28 G02F 1/13 G02F 1/1335 H04N 5/74 H04N 9/31

(21)Application number: 08034127

(71)Applicant:

SEIKO EPSON CORP

(22) Date of filing: 21.02.1996

(72)Inventor:

ITO YOSHITAKA KOMENO KUNIO

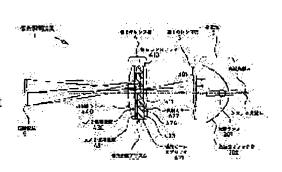
(30)Priority

Priority number: 07 50175 Priority date: 09.03.1995 Priority country: JP

(54) POLARIZED LIGHT ILLUMINATOR AND PROJECTION TYPE DISPLAY DEVICE

(57) Abstract:

PURPOSE: To constitute a miniaturized and compact polarized light illuminator where an integrator optical system and a polarized light conversion optical system are combined and whose light utilization efficiency is high. CONSTITUTION: This polarized light illuminator 1 is provided with a light source part 2 emitting light whose polarization direction is random, a 1st lens plate 3 constituted of plural rectangular condenser lenses whose outside shape is rectangular and condensing the light emitted from the light source so that plural secondary light source images may be formed, and a 2nd lens plate 4 placed near a position where the plural secondary light source images are formed and equipped with a condenser



lens array, a polarized light separation prism array 420, a
/2 phase difference plate 430, and an emitting side lens
440. In a stage where the minute secondary light source
image is formed by the 1st lens plate 3 constituting the
integrator optical system, polarized light is separated.
Therefore, since the spatial spread of an optical path
associated with the separation of the polarized light is
restrained, the illuminator 1 is miniaturized though it is provided with the polarized light conversion
optical system.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998 Japanese Patent Office





